

Genuine
RUBEROID
BONDED
BUILT-UP
ROOFS

The RUBEROID Co.

ROOFING MANUFACTURERS FOR OVER FORTY YEARS

RUBEROID — CONTINENTAL — SAFEPAK

WATSON — FTERNIT

Offices and Factories: New York, N. Y. — Chicago, Ill.
Millis, Mass. — Erie, Pa. — Baltimore, Md. — Mobile, Ala.

A WORD ABOUT GENUINE RU-BER-OID BONDED BUILT-UP ROOFS

BUILT OF EITHER

Asbestos—Coal Tar Pitch and Felt—Asphalt

The RUBEROID Co., with over 40 years of experience in the manufacture of quality roofing products, is now supplying Ruberoid Bonded Built-up Roofs in all of the popular types, Asbestos, Coal Tar Pitch and Felt, and Asphalt. The factories of The RUBEROID Co., are producing the materials from which these roofs are constructed.

Ruberoid specifications comprising all types of built-up roofs enable architects to specify the type of roof best adapted to construction and climatic conditions. Ruberoid Bonded Built-up Roofs provide for the

architect, builder and owner, a guarantee of both workmanship and labor for 10, 15 or 20 years, according to the specifications used. Ruberoid Bonded Roofs are applied only by approved roofing contractors and the guarantee is backed by a National Surety Bond.

Tabulated below is a chart showing the specifications generally used for various types of roofs—the guarantees applying and other essential information.

Should supplementary information be desired from our Engineering Department, write or telephone our nearest office.

The RUBEROID Co.

ROOFING AND BUILDING PRODUCTS

OFFICES

5333 South Western Avenue
CHICAGO

BALTIMORE
MOBILE

ERIE
MILLIS, MASS.

500 Fifth Avenue
NEW YORK

TARRED FELT AND PITCH BUILT-UP ROOFS, SLAG OR GRAVEL FINISH RAG FELT TAR SATURATED AND PITCH

SPECIFICATION NUMBER	DESIGNATION	CONSTRUCTION OF DECK	LIMITATION OF ROOF PITCH	SURFACE FINISH	TYPE OF ROOFING FELT INVOLVED	UNDERWRITERS' LAB. INC., RATING	NUMBER OF PLIES OF FELT	NUMBER OF MOP- PINGS OF PITCH	TOTAL WEIGHT PER SQUARE		TERM OF GUARANTY BONDED YEARS
									GRAVEL SURFACED	SURFACED SLAG	
151	PITCH AND FELT	WOOD	2"	SLAG OR GRAVEL	TARRED RAG FELT	A	ONE LAYER SHEATHING PAPER FOUR PLIES NO. 15 TARRED FELT	3	596	496	15
152	"	CONCRETE	1"	"	"	A	THREE PLIES NO. 15 TARRED FELT	4	625	525	15
151SD	"	WOOD	2"	"	"	A	ONE LAYER SHEATHING PAPER FOUR PLIES NO. 15 TARRED FELT	4	646	546	15
152SD	"	CONCRETE	1"	"	"	A	THREE PLIES NO. 15 TARRED FELT	5	675	575	15
202	"	WOOD	2"	"	"	A	ONE LAYER SHEATHING PAPER FIVE PLIES NO. 15 TARRED FELT	4	637	537	20
203	"	CONCRETE	1"	"	"	A	FOUR PLIES NO. 15 TARRED FELT	5	665	565	20
206	"	CONCRETE	1"	PROM- ENADE TILE	"	A	FIVE PLIES NO. 15 TARRED FELT WEIGHT PER SQUARE 305 LBS.	6			20
202SD	"	WOOD	2"	SLAG OR GRAVEL	"	A	ONE LAYER SHEATHING PAPER FIVE PLIES NO. 15 TARRED FELT	5	687	587	20
203SD	"	CONCRETE	1"	"	"	A	FOUR PLIES NO. 15 TARRED FELT	6	715	615	20

**ASPHALT BUILT-UP ROOFS—SLAG OR GRAVEL FINISH
RAG FELT—ASPHALT SATURATED AND ROOFING ASPHALT**

SPECIFICATION NUMBER	DESIGNATION	CONSTRUCTION OF DECK	LIMITATION OF ROOF PITCH	SURFACE FINISH	TYPE OF ROOFING FELT INVOLVED	UNDERWRITERS' LAB. INC. RATING	NUMBER OF PLIES OF FELT	NO. OF MOPPINGS OF ASPHALT	TOTAL WEIGHT PER SQUARE		TERM OF GUARANTY BOND—YEARS
									GRAVEL SURFACED	SLAG SURFACED	
153	ASPHALT FELT	WOOD	½" to 3"		ASPHALT FELT	A	FOUR NO. 15 FELTS	3	566	466	15
154	ASPHALT FELT	CONCRETE	½" to 3"		ASPHALT FELT	A	THREE NO. 15 FELTS	4	585	485	15
204	ASPHALT FELT	WOOD	½" to 3"	SLAG OR GRAVEL	ASPHALT FELT	A	FIVE NO. 15 FELTS	4	607	507	20
205	ASPHALT FELT	CONCRETE	½" to 3"		ASPHALT FELT	A	FOUR NO. 15 FELTS	5	625	525	20

**ALL-ASBESTOS FELT BUILT-UP ROOFS—SMOOTH FINISH
ASBESTOS FELT—ASPHALT SATURATED AND ROOFING ASPHALT**

SPECIFICATION NUMBER	DESIGNATION	CONSTRUCTION OF DECK	LIMITATION OF ROOF PITCH	SURFACE FINISH	TYPE OF ROOFING FELT INVOLVED	UNDERWRITERS' LAB. INC. RATING	NUMBER OF PLIES OF FELT	NO. OF MOPPINGS OF ASPHALT	SURFACE	TOTAL WEIGHT PER SQUARE	TERM OF GUARANTY BOND—YEARS
150	ASBESTOS	WOOD	½" to 6"	SMOOTH	ASBESTOS	A	ONE NO. 60 ASBESTOS TWO NO. 20 ASBESTOS	3	SMOOTH	172	15
158	ASBESTOS	INSULATION	¼" to 6"	SMOOTH	ASBESTOS	*	THREE NO. 20 ASBESTOS	4	SMOOTH	161	15
200	ASBESTOS	WOOD	½" to 6"	SMOOTH	ASBESTOS	A	ONE NO. 60 ASBESTOS TWO NO. 20 ASBESTOS	3	SMOOTH	172	20
201	ASBESTOS	CONCRETE	½" to 6"	SMOOTH	ASBESTOS	A	ONE NO. 60 ASBESTOS TWO NO. 20 ASBESTOS	4	SMOOTH	215	20
210	ASBESTOS	INSULATION	¼" to 6"	SMOOTH	ASBESTOS	A	FOUR NO. 20 ASBESTOS	5	SMOOTH	206	20

*Underwriters' Lab., Inc.: Rating—Wood Deck Class C, Non Combustible Deck Class B.

**COMBINATION ASBESTOS AND ASPHALT FELT—SMOOTH OR MINERAL FINISH
ASBESTOS AND RAG FELTS—ASPHALT SATURATED AND ROOFING ASPHALT**

SPECIFICATION NUMBER	DESIGNATION	CONSTRUCTION OF DECK	LIMITATION OF ROOF PITCH	SURFACE FINISH	TYPE OF ROOFING FELT INVOLVED	UNDERWRITERS' LAB. INC. RATING	NUMBER OF PLIES OF FELT	NO. OF MOPPINGS OF ASPHALT	SURFACED SMOOTH OR CRUSHED SLATE	TOTAL WEIGHT PER SQUARE	TERM OF GUARANTY BOND—YEARS
100	COMBINATION	WOOD	½" to 6"	SMOOTH	RAG & ASBESTOS	C	ONE NO. 30 RAG FELT TWO NO. 20 ASBESTOS	3	SMOOTH	149	10
101	COMBINATION	CONCRETE	½" to 6"	SMOOTH	RAG & ASBESTOS	A	ONE NO. 30 RAG FELT TWO NO. 20 ASBESTOS	4	SMOOTH	182	10
102	MINERAL SURFACED	WOOD	3" to 6"	CRUSHED SLATE	RAG	C	TWO NO. 15 RAG FELT TWO NO. 55 DUBL-COVERAGE MINERAL SURFACED ROOFING	2	DUBL- COVERAGE MINERAL SURFACED ROOFING	194	10
103	MINERAL SURFACED	CONCRETE	3" to 6"	CRUSHED SLATE	RAG	C	ONE NO. 15 RAG FELT TWO NO. 55 DUBL-COVERAGE MINERAL SURFACED ROOFING	3	DUBL- COVERAGE MINERAL SURFACED ROOFING	218	10
156	COMBINATION	WOOD	½" to 6"	SMOOTH	RAG & ASBESTOS	C	ONE NO. 40 RAG FELT TWO NO. 20 ASBESTOS	3	SMOOTH	149	15
157	COMBINATION	CONCRETE	½" to 6"	SMOOTH	RAG & ASBESTOS	A	TWO NO. 15 RAG FELT TWO NO. 20 ASBESTOS	5	SMOOTH	212	15
208	COMBINATION	WOOD	½" to 6"	SMOOTH	RAG & ASBESTOS	B	ONE NO. 40 RAG FELT THREE NO. 20 ASBESTOS	4	SMOOTH	199	20
209	COMBINATION	CONCRETE	½" to 6"	SMOOTH	RAG & ASBESTOS	A	TWO NO. 15 RAG FELT THREE NO. 20 ASBESTOS	6	SMOOTH	232	20

ASBESTOS FELT AND ASPHALT FELT, SMOOTH FINISH ROOF

For Use Over Board Sheathing

For Inclines Not Exceeding 6-in. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 100 (COMBINATION)—10-YEAR BOND

Underwriters' Laboratories Class C Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 10-year Guaranty Bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Asphalt Felt—Ruberoid No. 30 Asphalt Felt.

Asbestos Felt—Ruberoid No. 20 Asphalt-saturated Asbestos Felt.

Asphalt—Ruberoid Bond Roofing Asphalt.

Work by Others

The roof deck must be constructed of seasoned lumber, dressed on upper side, dry and free from large cracks and knot holes. Roof boards must be securely nailed in place, leaving no nail heads above the wood surfaces. Surfaces must be properly graded to outlets and cant strips provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the board surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

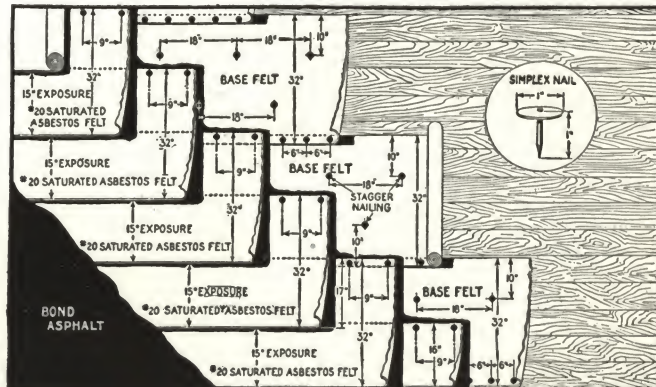
Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one ply of No. 30 Asphalt Felt, lapping sheets 2-in. at edges and not less than 6-in. at end laps. Nail at 6-in. intervals along the lap and at 18-in. intervals along lines 10-in. from each edge of each sheet, the latter nails being staggered. This felt shall be turned up not less than 4-in. along all walls and vertical surfaces.

Second—Over the entire surface lay two plies of No. 20 Saturated Asbestos Felt, embedding each sheet in Asphalt, lapping each sheet 17-in. over the preceding one and rolling each sheet immediately behind the mop to insure proper adhesion of all sheets. In no place shall felt touch felt. Each sheet shall be nailed along the back edge only from 1-in. to 1½-in. down, at intervals of approximately 18 in. These felts shall be cut off at the angle of the roof deck and all vertical surfaces.



Third—Over the entire surface mop a uniform coating of Asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One ply Ruberoid No. 30 Asphalt Felt.....	32 lb.
Two Plies Ruberoid No. 20 Saturated Asbestos Felt	40 lb.
Ruberoid Bond Roofing Asphalt.....	75 lb.
Simplex Nails	2 lb.

Total Approximate Weight, 100 sq. ft.....149 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. Asphalt shall not be heated to exceed 450° F.

All nailing of roofing to board surfaces shall be done with Simplex flat head roofing nails or with ⅞-inch galvanized roofing nails, driven through flat tin discs.

All roofing work shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is to be applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing and of a type that will retain nails. Use the method of application as shown in Ruberoid Specification Number 101.

No more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of the insulation at a distance not greater than one width of insulating material from walls, curbs and openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bonds

The Manufacturer's Surety Bond Guarantee as issued by the National Surety Corporation of New York, N. Y., covering a period of 10 years from date of completion of the work shall be furnished.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the manufacturer.

ASBESTOS FELT AND ASPHALT FELT, SMOOTH FINISH ROOF

**For Use Over Poured Concrete, Poured Gypsum, Gypsum Block,
Precast Concrete Tile, Book Tile or Approved Insulation**

For Inclines Not Exceeding 6 In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 101 (COMBINATION)—10-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 10-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Primer—Ruberoid Concrete Primer.

Asphalt Felt—Ruberoid No. 30 Asphalt Felt.

Asbestos Felt—Ruberoid No. 20 Asphalt-saturated Asbestos Felt.

Asphalt—Ruberoid Bond Roofing Asphalt.

Work by Others

The roof deck must be thoroughly dry, smooth and free from loose material, and must be properly graded to outlets.

For inclines exceeding 3-in. to the foot, if the deck is of concrete, wood nailing strips must be provided at proper intervals.

Coves shall be provided in the angle between the roof and the vertical surfaces.

Where Book Tile is used, the surface of the tile must be covered with portland cement mortar 1-in. thick with a smooth and even finish.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the entire surface with Primer applied cold, allowing same to dry thoroughly. Where plastic material is used to caulk the joints of blocks, the coating of primer shall be held back 2-in. from all joints.

Second—Over the entire surface lay one ply of No. 30 Asphalt Felt in Roofing Asphalt, lapping each sheet 2-in. over the preceding one at edges and not less than 6-in. at end laps. Roll each sheet immediately behind the mop to insure proper adhesion of all sheets. Mopping and rolling shall be so done as to secure a continuous bed of asphalt of uniform thickness. In no place shall felt touch felt or roof deck. Felts shall be cut off at the angle of the roof deck and all vertical surfaces.

On inclines exceeding 3-in. to the foot these sheets shall be nailed at intervals of 9-in. along the lap into the nailing strips.

Note: Where poured gypsum or precast gypsum blocks are used, all three plies of felt shall be nailed as specified in the case of board decks.

Third—Over the entire surface lay in asphalt two plies of No. 20 Saturated Asbestos Felt, lapping each sheet 17-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot asphalt. In no place shall felt touch felt.

On inclines exceeding 3-in. to the foot, sheets shall be nailed at intervals of 18-in. along the nailing strips or back edge.

These felts shall be cut off at the angle of the roof deck and vertical surfaces.

Fourth—Over the entire surface mop a uniform coating of asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Ruberoid Concrete Primer (1 gal.)	10 lb.
One Ply Ruberoid No. 30 Asphalt Felt	32 lb.
Two Plies Ruberoid No. 20 Asphalt-saturated Asbestos Felt	40 lb.
Ruberoid Bond Roofing Asphalt	100 lb.

Total Approximate Weight 100 sq ft. 182 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. Asphalt shall not be heated to exceed 450° F.

All nailing of roofing shall be done with Simplex flat head roofing nails or with 7/8-inch galvanized roofing nails, driven through flat tin discs.

All roofing work shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

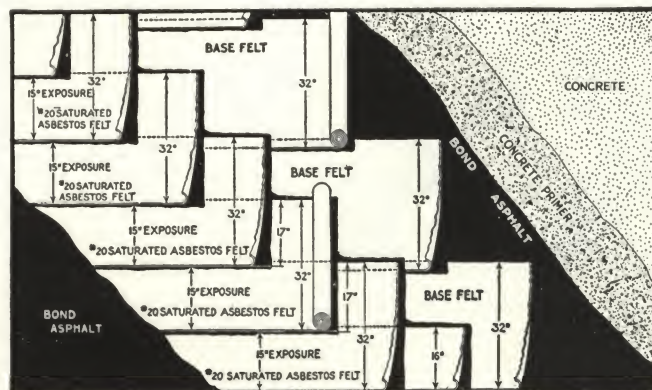
Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bond

The Manufacturer's Surety Bond Guaranty as issued by the National Surety Corp. of New York, N. Y., covering a period of 10 years from date of completion of the work shall be furnished.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the Manufacturer.



COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

For Use Over Board Sheathing with or Without Approved Insulation and Precast Gypsum Blocks

For Inclines Not Exceeding 2 In. per Ft.

SPECIFICATION NO. 151—15-YEAR BOND*

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

in size, dry and free from dirt. If the roof is applied during cold weather, or the slag or gravel is damp, it shall be heated and dried immediately before application.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

If over boards, the roof deck shall be constructed of seasoned lumber, smooth and securely nailed, and free from large cracks or knot holes. It shall be properly graded to outlets and swept clean and free from all loose material.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one thickness of sheathing paper, weighing not less than 5 lb. per 100 sq. ft., lapping the sheets at least 1-in. If Precast Gypsum Block is used, sheathing paper may be omitted.

Second—Over the entire surface lay two plies of No. 15 Tarred Felt, lapping each sheet 17-in. over the preceding one, and turning up these felts not less than 4-in. along all vertical surfaces. Nail as often as is necessary to secure, until the remaining felt is laid.

Third—Coat the entire surface uniformly with Coal Tar Pitch.

Fourth—Over the entire surface lay two plies of No. 15 Tarrd Felt, lapping each sheet 17-in. over the preceding one, mopping with Coal Tar Pitch the full 17-in. on each sheet, so that in no place shall felt touch felt. The back edge of each sheet shall be nailed at intervals of 24-in. at a distance not greater than 6-in. from back edge of sheet. Such nailing as is necessary shall be done so that all nails are covered by not less than one ply of felt. The felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Fifth—Over the entire surface pour a uniform coating of Coal Tar Pitch into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag for each 100 sq. ft. The gravel or slag shall be $\frac{1}{4}$ -in. to $\frac{5}{8}$ -in.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One-layer Sheathing Paper.....	5 lb.
Four Plies Ruberoid No. 15 Tarred Felt.....	65 lb.
Ruberoid Coal Tar Pitch.....	125 lb.
Simplex Nails.....	1 lb.
Roofing Gravel.....	400 lb.
or	
Roofing Slag.....	300 lb.

Total Approximate Weight.	{ gravel surface.....	596 lb.
	{ slag surface.....	496 lb.

Felt shall be laid without wrinkles or buckles. Pitch shall not be heated to exceed 400° F.

All nailing of roofing shall be done with Simplex flat head roofing nails or with 7/8-inch galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs, and other openings.

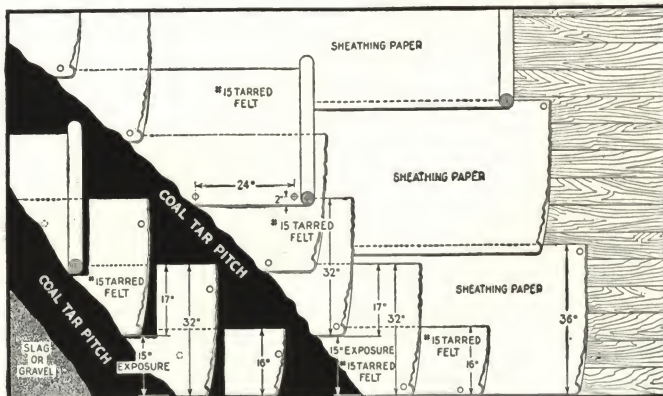
Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bond

The Manufacturer's Surety Bond Guaranty as issued by the National Surety Corp. of New York, N. Y., covering a period of 15 years from date of completion of the work shall be furnished.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the Manufacturer.



*SPECIFICATION NO. 153—ASPHALT FELT AND ASPHALT WITH SLAG OR GRAVEL SURFACE

15-Year Bond—Underwriters' Class A Rating—For inclines not exceeding 4-in. per ft.

Construction identical with No. 151, except that no sheathing paper is required.

COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

For Use Over Poured Concrete, Poured Gypsum, Precast Concrete
Tile or Book Tile with or Without Approved Insulation

For Inclines Not Exceeding 1-in. per Ft.

SPECIFICATION NO. 152—15-YEAR BOND*

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

The roof deck shall be thoroughly dry, smooth and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with smooth and even finish.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the deck uniformly with Coal Tar Pitch. If Precast Concrete Tile is used, the surface shall be spot or strip mopped.

Second—Over the entire surface lay three plies of No. 15 Tarred Felt, lapping each sheet 22-in. over the preceding one and mopping with Coal Tar Pitch the full 22-in. on each sheet so that in no place shall felt touch felt. The felt shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface pour a uniform coating of Coal Tar Pitch into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag for each 100 sq ft. The gravel or slag shall be from 1/4-in. to 5/8-in. in size, dry and free from dirt.

If the roof is applied dur-

ing cold weather, or slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Three Plies Ruberoid No. 15 Tarred Felt.....	50 lb.
Ruberoid Coal Tar Pitch.....	175 lb.
Roof Gravel	400 lb
or	
Roofing Slag	300 lb.

Total Approximate Weight.. {gravel surface...625 lb.
slag surface525 lb.

All felt shall be laid without wrinkles or buckles. Pitch shall not be heated to exceed 400° F.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails.

Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

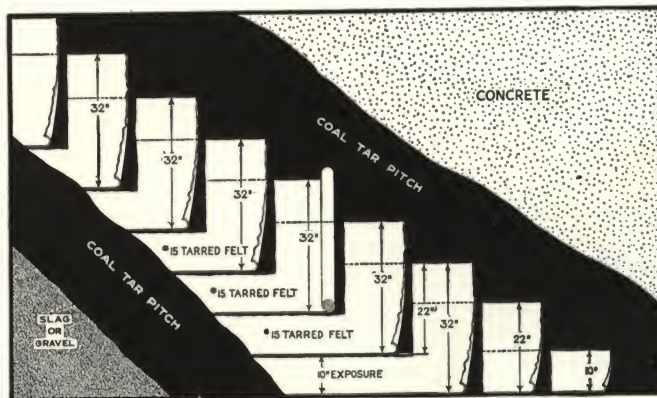
Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bond

The Manufacturer's Surety Bond Guaranty as issued by the National Surety Corp. of New York, N. Y., covering a period of 15 years from date of completion of the work shall be furnished.

Note: This guaranty is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the Manufacturer.



*SPECIFICATION NO. 154—ASPHALT FELT AND ASPHALT WITH SLAG OR GRAVEL SURFACE

15-Year Bond—Underwriters' Class A Rating—For inclines not exceeding 3-in. per ft.

Construction Identical with No. 152, except that a concrete primer is used.

ASBESTOS FELT AND ASPHALT SMOOTH FINISH ROOF

For Use Over Board Sheathing

For Inclines Not Exceeding 6 In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 200—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Asbestos Base-Felt—Ruberoid No. 60 Asbestos Base-Felt.

Asbestos Felt—Ruberoid No. 20 Asphalt-saturated Asbestos Felt.

Asphalt—Ruberoid Bond Roofing Asphalt.

Work by Others

The roof deck must be constructed of seasoned lumber, dressed on upper side, dry and free from large cracks and knot holes. Roof boards must be securely nailed in place, leaving no nail heads above the wood surfaces. Surfaces must be properly graded to outlets, and cant strips provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one ply of No. 60 Saturated Asbestos Base-Felt, lapping each sheet 2-in. at edges and not less than 6-in. at end laps. Nail at 6-in. intervals along the lap, and also at intervals of 18-in. on a line 10-in. from each edge of the sheet, staggering the nails. The felt shall be turned up not less than 4-in. along all vertical surfaces.

Second—Over the entire surface embed in Asphalt two plies of No. 20 Saturated Asbestos Felt, lapping each sheet 17-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot Asphalt so that in no place shall felt touch felt. Each sheet shall be nailed along the back edge from 1 to 1½-in. down at intervals of approximately 18-in. These felts shall be cut off at the angle of the roof deck and vertical surfaces.

Third—Over the entire surface mop a uniform coating of Asphalt using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One Ply Ruberoid No. 60 Asbestos Base-Felt.....	55 lb.
Two Plies Ruberoid No. 20 Asphalt-saturated	
Asbestos Felt	40 lb.
Ruberoid Bond Roofing Asphalt.....	75 lb.
Simplex Nails	2 lb.

Total Approximate Weight per 100 sq. ft.....172 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. The Asphalt shall not be heated to exceed 450° F.

All nailing of roofing to board surfaces shall be done with Simplex flat head roofing nails or with ⅞-inch galvanized roofing nails driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

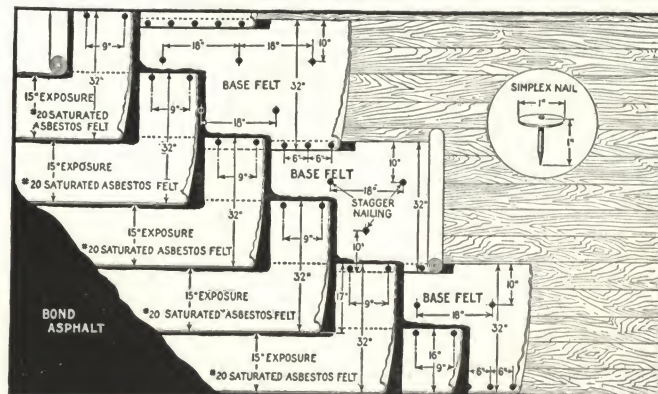
Note 2—Leader Heads, Vents, Etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bond

The Manufacturer's Surety Bond Guaranty as issued by the National Surety Corp. of New York, N. Y., covering a period of twenty years from date of completion of the work shall be furnished.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the Manufacturer.



ASBESTOS FELT AND ASPHALT SMOOTH FINISH ROOF

For Use Over Poured Concrete, Poured Gypsum, Gypsum Block,
Precast Concrete Tile, Book Tile or Approved Insulation

For Inclines Not Exceeding 6 In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 201—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Concrete Primer—Ruberoid Concrete Primer.

Asbestos Base-Felt—Ruberoid No. 60 Asbestos Base-Felt.

Asbestos Felt—Ruberoid No. 20 Asphalt-saturated Asbestos Felt.

Asphalt—Ruberoid Bond Roofing Asphalt.

Work by Others

The roof deck shall be thoroughly dry, smooth and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with a smooth and even finish.

Where poured gypsum or precast gypsum blocks are used, all felt shall be nailed as required when the roof deck is of boards.

For inclines exceeding 3-in. to the foot, if the deck is of concrete, wooden nailing strips must be provided at proper intervals.

Coves shall be provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the entire surface with Concrete Primer applied cold and allow same to dry thoroughly. Where plastic material is used to caulk the joints of blocks, the coating of primer shall be held back 2-in. from all joints.

Second—Over the entire surface embed in Ruberoid Bond Asphalt one ply of No. 60 Asbestos Base-Felt, lapping each sheet 2-in. over the preceding one at the edges and not less than 6-in. at end laps. Nail at intervals of 12-in. along the laps into the nailing strip. All felts shall be cut off at the angle of the roof deck and all walls or vertical surfaces.

Third—Over the entire surface embed in Ruberoid Bond Asphalt two plies of No. 20 Asphalt-saturated Asbestos Felt, lapping each sheet 17 in. over the preceding one, rolling each sheet immediately behind

the mop to insure a uniform coating of hot asphalt so that in no place shall felt touch felt.

On inclines exceeding 3-in. to the foot, these sheets shall be nailed 6-in. from the back edge at intervals of 24-in. All felts shall be cut off at the angle of the roof deck and all walls or vertical surfaces.

Fourth—Over the entire surface mop a uniform coating of Asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Ruberoid Concrete Primer (1 gal.)	10 lb.
One Ply Ruberoid No. 60 Asbestos Base-Felt	55 lb.
Two Plies Ruberoid No. 20 Asphalt-saturated Asbestos Felt	40 lb.
Ruberoid Bond Roofing Asphalt	110 lb.

Total Approximate Weight per 100 sq. ft. 215 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt.

All nailing of roofing to roof surfaces shall be done with Simplex flat head roofing nails or with 7/8-in. galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

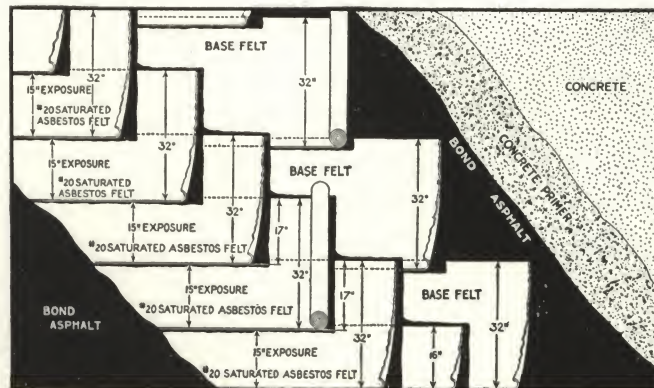
Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bond

The Manufacturer's Surety Bond Guaranty as issued by the National Surety Corp. of New York, N. Y., covering a period of twenty years from date of completion of the work shall be furnished.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the Manufacturer.



COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

For Use Over Board Sheathing with or Without Approved Insulation and
Precast Gypsum Blocks

For Inclines Not Exceeding 2-in. per Ft.
SPECIFICATION NO. 202—20-YEAR BOND*

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—The RUBEROID Co., whose main office is at No. 500 Fifth Avenue, New York, N. Y.

Contractor—The Roofing Contractor.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

If over boards, the roof deck shall be constructed of seasoned lumber, smooth and securely nailed, and free from large cracks or knot holes. It shall be properly graded to outlets and swept clean and free from all loose material.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one thickness of sheathing paper, weighing not less than 5 lb. per 100 sq. ft., lapping the sheets at least 1-in. If Precast Gypsum Block is used, sheathing paper may be omitted.

Second—Over the entire surface lay two plies of No. 15 Tarred Felt, lapping each sheet 17-in. over the preceding one and nailing as often as is necessary to secure, until the remaining felt is laid. These felts shall be turned up not less than 4-in. along all walls or vertical surfaces.

Third—Coat the entire surface uniformly with Coal Tar Pitch.

Fourth—Over the entire surface lay three plies of No. 15 Tarred Felt, lapping each sheet 22-in. over the preceding one, mopping with Coal Tar Pitch the full 22-in. on each sheet, so that in no place shall felt touch felt. The back edge of the sheet shall be nailed at intervals of 24-in. at a distance not greater than 6-in. from the back edge of the sheet. Such nailing as is necessary shall be done so that all nails are covered by not less than two plies of felt. These felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Fifth—Over the entire surface pour a uniform coating of Coal Tar Pitch into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag for each 100 sq. ft.

The gravel or slag shall be $\frac{1}{4}$ -in. to $\frac{5}{8}$ -in. in size, dry and free from dirt. If the roof is applied during cold weather, or slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One Layer Sheathing Paper.....	5 lb.
Five Plies Ruberoid No. 15 Tarred Felt.....	80 lb.
Ruberoid Coal Tar Pitch.....	150 lb.
Simplex Nails	2 lb.
Roofing Gravel	400 lb.
or	
Roofing Slag	300 lb.

Total Approximate Weight { gravel surface.....637 lb.
slag surface.....537 lb.

The felt shall be laid without wrinkles or buckles, and the pitch shall not be heated to exceed 400° F.

All nailing of roofing shall be done with Simplex flat head roofing nails or with $\frac{3}{8}$ -inch galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

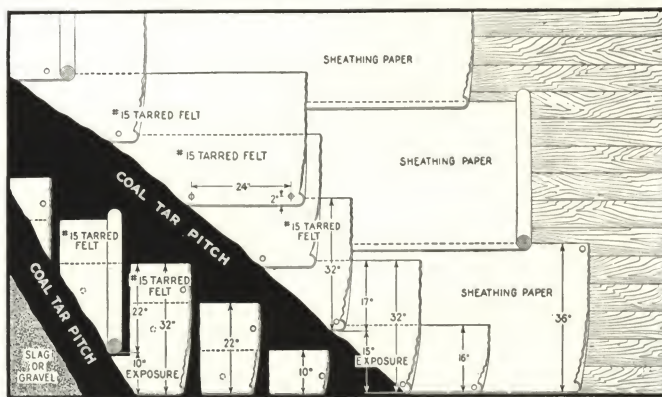
Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Note 3—Directions covering the application of felt flashing re-inforcement around all walls and vertical surfaces must be followed as outlined in the section entitled "Requirements for Applying Ruberoid Bonded Roofs," which is made a part of this application.

Bond

The Manufacturer's Surety Bond Guaranty as issued by the National Surety Corp. of New York, N. Y., covering a period of twenty years from date of completion of the work shall be furnished.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturers' Inspection Service, except by special arrangement with the Manufacturer.



*SPECIFICATION NO. 204—ASPHALT FELT AND ASPHALT WITH SLAG OR GRAVEL SURFACE

20-Year Bond—Underwriters' Class A Rating—For inclines not exceeding 3-in. per ft.

Construction Identical with No. 202, except that no sheathing paper is used.

for

Genuine

RU-BER-OID

**SHINGLES
ROOFINGS**

AND

**BUILDING
PRODUCTS**

for

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